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FOOD ENGINEERING

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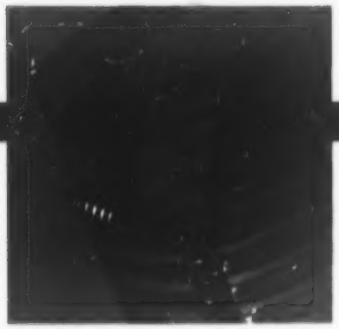
CONVENIENT PACKAGES FOR CONVENIENCE FOODS

FOOD LABS '92 CONFERENCE SEE P.48

FOOD ENGINEERING



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Despite the recession, convenience foods, made more convenient by recent advances in packaging, continue to score with consumers looking for foods that require less time and energy to prepare.
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ENGINEERED FOODS

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JESSE H. NEAL AWARD-WINNING EDITORS

CHILTON FOOD GROUP

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Opportunities prevail south of the border

U.S. food processing companies will do well to run for the border, now that Mexico's improved economy, consumer spending and changing lifestyles have made it a prosperous country to do business with, according to a study conducted by A.T. Kearney, New York.

Companies such as Sara Lee, Pepsico and Kraft have become so established in Mexico that their brand names have become household names in Mexico, according to Aliza Chelminisky, vice president of the Mexican Investment Board, New York. The Kearney study predicts that many large food processing companies not currently in Mexico will seek to enter the market through building a plant or acquiring local companies. Established firms will maximize export opportunities and develop local consumer demand. Referring to the country of 80 million, a U.S. executive said, "Mexico has the highest profit margins of all our Latin American operations." Mexico has three growing seasons (as opposed to two in California) and labor intensive operations, such as vegetable processing, are cost-effective.

Company	Revenues	Products
CPC International	$5.1 B	Corn refining, canned goods
Dean Foods	2.0 B	Dairy, canned/frozen vegetables
Kraft General Foods	10.4 B	Packaged foods
Pepsico Foods	672.0 M	Snack foods
Sara Lee	11.6 B	Packaged foods
Stokely	272.0 M	Canned/frozen fruits, vegetables

Source: A.T. Kearney.

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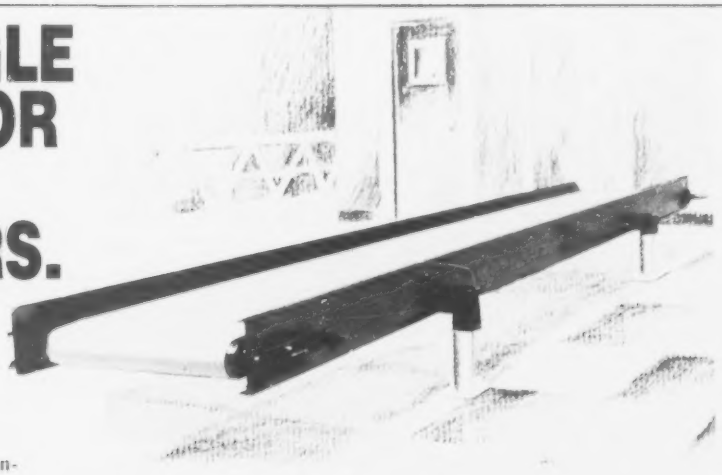

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15th ANNUAL NEW PLANT CONSTRUCTION

The slump in the economy finally slows down food plant construction. And, sake comes to America while red meat plant construction flexes more muscle than poultry plants.

PATRICIA M. DILLON
SENIOR ASSOCIATE EDITOR

The recession has finally made its mark in food plant construction with this year's total of 305 representing a dramatic decrease from 1990's survey total of 456 and 1989's 390. Last year's *Food Engineering's* annual new plant and renovation survey switched from the November issue to April and only six months were counted, making other than percentile comparisons pointless. As in years past, we have compiled our results from data provided by Conway Data, Inc., Norcross, GA and our own mailed survey to approximately 220 architectural/engineering firms throughout the U.S. Continuing a trend, some 52 percent of the projects were renovations or expansions, as opposed to new plants. As budgets tighten, companies have a tendency to renovate or expand, rather than build new plants.

Scanning survey results uncovered an interesting development. Has the U.S. love affair of things Japanese—cars, VCRs, stereo equipment—embraced of all things, sake? Two sake plants are slated for construction, one in Fairfield, CA, a state well-known for its high Asian population, and the other in Coor's beer territory—Golden, CO.

A dramatic shift has occurred between the amount of meat versus poultry plants. In recent years, the U.S. has shifted from being a meat and potatoes country to a diet-conscious society that has shown a preference for poultry and fish. This year's survey shows a slight reversal in this trend, though it is difficult to tell whether this will continue. In 1990's survey, close to 11 percent of construction projects were dedicated to poultry plants while meat was a paltry six percent. But in 1992, poultry plant construction dropped to six percent while meat expanded to 8.2 percent.

Like a lot of businesses last year, a number of architectural/engineering firms reported that business was off. And like the rest of the country, we'll have to wait to see whether the good times predicted for spring of '92 really bloom.

Five Kraft Foodservice distribution centers were part of this year's new plant construction and renovation survey. (Source: Haskell Co.)

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employees	Architects/ Engineers	Status & Date
			A					
A.E. Staley Mfg. Co.	Van Buren, AR	Starch products	Exp.	–	8	–	–	1992
Ace Baking Co.	Williamsport, MD	Ice cream cones	New	20	–	–	–	–
Advance Food Company	Enid, OK	Food products	Exp.	150	9.6	–	–	Summer 1992
Advance Meat Co.	Enid, OK	Meat products	Exp.	157	–	370	–	–
Ag Processing Inc.	Southeast SD	Starch	New	100 acres	300	200	PSI Group	Spring 1994
AGCO Inc./Farmland Industries	Russell, KS	Wheat starch	New	–	5	–	–	–
Aldi	Springfield, OH	Food products	New	375	–	–	Food Plant Engineering	Spring 1993
Alltech	Nicholasville, KY	Yeast	Exp.	–	1.5	–	–	–
Ambrosia Chocolate	Milwaukee, WI	Chocolate	New	320	93	350	Jones Group Lockwood Greene Davy McKee	June 1992
American Crystal Sugar Co.	East Grand Forks, MN	Molasses proc.	Exp.	–	34		–	–
American Egg Products	Blackshear, GA	Egg products	New	36	2.5	–	Haskell Group	Feb. 1992
American Food Corp.	Beloit, WI	Snack foods	New	26	–	–	–	–

FOOD PLANT SURVEY

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employ-ees	Architects/ Engineers	Status & Date
American Maize Products	Hammond, IN	Corn syrup	Exp.	–	5.2	–	–	1992
American Meat Protein Co.	Fremont, NE	Meat protein	New	70	1	–	–	–
Amexon	Youngstown, OH	Snack foods	New	200	6	50	–	–
Anderson-Erickson Dairy	Des Moines, IA	Dairy	New	–	–	240	–	Oct. 1991
Anheuser-Busch	Jacksonville, FL	Beer	Exp.	–	40	–	–	–
Arctic Alaska Fisheries	Seattle, WA	Seafood processing	New	100	–	–	–	Nov. 1991
Arctic Alaska Fisheries Corp.	Newport, OR	Fish meal	New	–	5	–	–	–
Atlantic Coast Protein	Selma, NC	Enzymes	New	–	1.5	–	–	–
Avonmore, West	Gooding, ID	Cheese	Renov.	48	10	–	Mead & Hunt	April 1991
Azar Nut Co.	El Paso, TX	Peanuts	New	160	–	250	–	–
		B						
B&B Onion	Hugo, OK	Vegetable proc.	New	–	–	70	–	–
Beef Products, Inc.	Joslin, IL	Beef	New	–	–	–	–	–
Beef Products, Inc.	Waterloo, IA	Pork	New	–	–	–	–	–
Bagel Bites	Fort Myers, FL	Food products	Exp.	51	–	–	–	–
Bama Foods	Tulsa, OK	Biscuits	New	135	40	150	Webber/Smith Lockwood Greene	July 1991
Barber's Dairies	Birmingham, AL	Milk	Exp.	40	3	–	Webber/Smith	Fall 1991
Bar-S Foods	Clinton, OK	Meat processing	Exp.	56	7	100	–	–
Bar-S Foods	Altus, OK	Hot dogs	New	150	–	400	–	–
Beef Products	North Sioux City, SD	–	New	30	3	70	–	–
Beef Products	Finney Cnty., KS	Processed meat	Exp.	–	5	–	–	–
Ben & Jerry's	St. Albans, VT	Ice cream	New	105	20	150	Webber/Smith	Summer 1993
Ben & Jerry's	St. Albans, VT	Ice cream	Exp.	10	1	100	Webber/Smith	June 1992
Ben & Jerry's	Bellows Falls, VT	Ice cream dist.	New	45	3	25	Webber/Smith	June 1992
Ben E. Keith	San Antonio, TX	Foodservice dist.	New	100	6	100	Webber/Smith	Fall 1992
Best Foods	Santa Fe Springs, CA	Mayonnaise	Exp.	20	20	–	Austin Co.	Complete
Best Foods	Franklin, NJ	Tech center	New	–	–	–	Austin Co.	–
Bi-Lo	Mauldin, SC	Ice cream dist.	Exp.	50	3	6	Webber/Smith	March 1992
Blue Bell Creameries	Ruston, LA	Ice cream	New	–	1.2	–	–	–
Blue Bell Creameries	Broken Arrow, OK	Ice cream	New	110	–	100	–	1993
Borden	St. Louis, MO	Pasta	New	300	50	230	Wetterau Builders	Dec. 1991
Brooks Sausage Company	Pleasant Prairie, WI	Sausage	New	50	7	100	–	Spring 1992
Brown's Bakery	Defiance, OH	Baked goods	Exp.	–	1.4	–	–	–
Bruce Foods Corp.	Cade, LA	Food products	Exp.	75	–	–	–	–
Budco Distributing Co.	Monroe, LA	Distribution center	Exp.	–	1.4	–	–	1991
Burnett Dairy	Grantsburg, WI	Cheese	Exp.	10	600	–	Mead & Hunt	Dec. 1991
Burris Refrigerated Services	Chesapeake, VA	Distribution center	New	74	–	–	–	July 1991
Burris Retail Food Systems	Harrington, DE	Distribution center	Exp.	51	–	–	–	April 1991
Butterkrust Bakeries	Lakeland, FL	Bread/buns	Exp.	70	10	100	–	–
		C						
C&C Bakery	Mercedes, TX	Tortillas	New	–	1.8	100	–	–

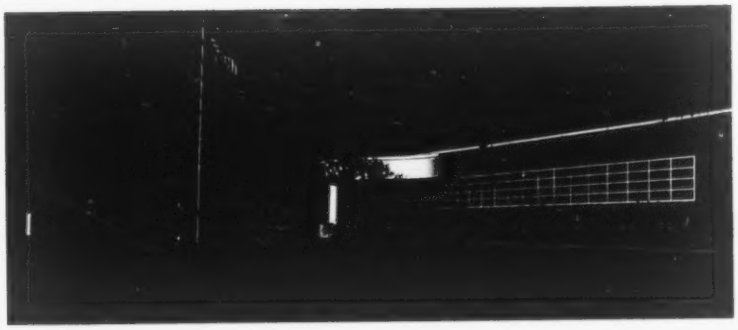
FOOD PLANT SURVEY

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employees	Architects/ Engineers	Status & Date
C.J. Vitner Co.	Freeport, IL	Snack foods	New	100	11.7	250	–	Dec. 1991
CPC International	Winston-Salem, NC	Fructose	Exp.	–	4	–	PSI Group	April 1991
Cagle's	Macon, GA	Poultry processing	Exp.	–	–	500	–	–
Campbell Soup	Camden, NJ	Research center	Addition	125	24	–	Ballinger Sigel Group	1992
Campbell Soup	Paris, TX	Sauce	Exp.	220	17	–	Lockwood Greene	–
Cantisano Foods	Selma, CA	Spaghetti sauce	New	60	–	100	–	March 1992
Cargill	Jacksonville, FL	Chicken processing	Exp.	60	8.3	50	Haskell Group	Feb. 1992
Cargill	Ozark, AR	Turkey processing	Exp.	–	17	80	–	–
Cargill	Eddyville, IA	Corn oil	Exp.	–	15	–	–	–
Cargill	Memphis, TN	Starch	Exp.	–	–	–	PSI Group	–
Cargill	Stockton, CA	Flour	New	–	–	–	Buhler Younglove	Feb. 1992
Cargill Poultry Products	Dawson, GA	Poultry processing	New	85	12.5	–	Haskell Group	Early 1993
Cargill Poultry Products	Buena Vista, GA	Poultry processing	Exp.	50	–	–	Haskell Group	Jan. 1993
Carnation Co.	Hamilton, NJ	Food products	New	600	–	–	–	–
Carolina Food Processors	Tar Heel, NC	Pork processing	New	560	60	–	Stellar Group	Sept. 1992
Carolina Turkey	Mt. Olive, NC	Turkey processing	Exp.	25	5	25	Facility Group	June 1992
Casson Corp.	Bagley, IA	Pet food	New	29	–	–	–	–
Century Ice	Oklahoma City, OK	Packaged ice	Exp.	–	–	75	–	–
Chief Ethanol	Hastings, NE	Dried grains	Exp.	–	15	20	PSI Group	Spring 1992
Cinpac	Cincinnati, OH	Prep. meals	Conv.	180	–	–	Hixson	1991
Citrus Hill Mfg. Co.	Plymouth, IN	Juice	Exp.	–	16	80	–	–
City Provisioners	Ormond Beach, FL	Meat processing	Exp.	78	4	350	H.J. High	April 1992
Club Chef	Cincinnati, OH	Produce	Exp.	–	–	–	Hixson	1991
Columbia Valley Foods	Quincy, WA	Potato	New	150	32	60	Webber/Smith	Fall 1993
ConAgra	Athens, LA	Chicken hatchery	New	48	–	–	–	–
ConAgra Broiler Co.	Farmerville, LA	Poultry processing	New	–	34	–	–	–
ConAgra Broiler Co.	Hurlock, MD	Chicken hatchery	New	–	–	100	–	April 1992
ConAgra	El Dorado, AR	Chicken	Exp.	55	3	150	Webber/Smith	Fall 1992
ConAgra Frozen Foods	Batesville, AR	Food products	Exp.	–	7.6	50	–	–
ConAgra Frozen Foods	Russellville, AR	Food products	Exp.	–	7.6	–	–	–
Continental Foods	Baltimore, MD	Foodservice dist.	Exp.	33	2	50	Webber/Smith	Aug. 1992
Contran	Kerman, CA	Tomato sauces	New	80	6	110	–	June 1992
Cook Dairy Products Co.	Oklahoma City, OK	Ice cream	Exp.	–	1.9	–	–	–
Coors	Memphis, TN	Beer	Renov.	–	100	245	PSI Group Tuchenhagen	Spring 1991
Cooper Farms	Fort Recovery, OH	Feed mill	New	–	–	–	–	May 1992
Cornuts	Fresno, CA	Cornuts	New	55	–	–	Comstock	1991
Corning Nut Co.	Corning, CA	Almond processing	New	30	2.2	–	–	June 1992
County-Fed Meat Co.	Dallas, TX	–	New	–	–	50	–	–
Crestar Foods	Ohio	Bakery	Renov.	–	–	–	Hixson	Planning

D

Dairyman's Cooperative	Tulare, CA	Milk	Exp.	20	6	–	–	July 1992
Dairyman's Supply Co.	Wildwood, FL	Dairy supply	New	70	2	50	–	June 1991

FOOD PLANT SURVEY

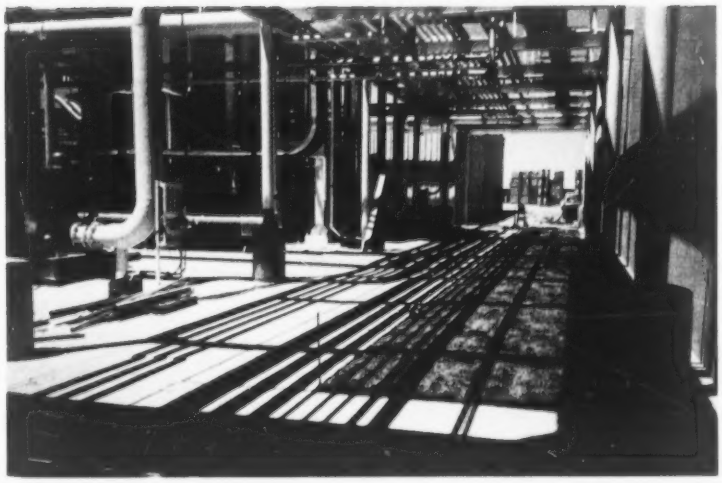


The Cinpac conversion in Cincinnati will manufacture prepared meals. (Source: Hixson.)

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employees	Architects/ Engineers	Status & Date
Dan Valley Foods	Pittsylvania Cnty., VA	Food products	New	30	–	–	–	–
Dannon Co.	Fort Worth, TX	Yogurt	Exp.	75	20	120	Webber/Smith	Early 1993
Darigold	Sunnyside, WA	Milk	New	65	–	–	Food Plant Engineering	Jan. 1992
Doane Products Co.	Pueblo, CO	Dry dog food	New	100	–	–	–	End of 1991
Dole/Hancock Fidelity	Clewiston, FL	Citrus	New	140	3.5	–	H.J. High	July 1991
Domino Sugar	Baltimore, MD	Sugar	Renov.	–	–	–	PSI Group	Sept. 1991
Dunkirk Ice Cream Co.	Dunkirk, NY	Ice cream	Exp.	20	6	–	–	–
Dutch Gold Honey	Lancaster, PA	Honey	Exp.	30	1.5	–	–	March 1991
E								
Eagle Snacks	Dallas, TX	Snack foods	New	20	–	–	–	–
Eakly Peanut Processing	Eakly, OK	Peanut processing	New	23	–	–	–	–
East Balt Commissary	Chicago, IL	Baked goods	Exp.	25	3	15	Webber/Smith	–
ECO Farms	Mira Loma, CA	Citrus packing	New	47	–	–	–	Aug. 1991
Elgin Dairy Foods	Hillside, IL	Dairy	Exp.	11	–	–	–	–
Excel Corp.	Friona, TX	Beef processing	Exp.	–	11	–	–	1992
F								
Fiorucci Foods Corp.	Colonial Heights, VA	Distribution	Exp.	12	1	65	Haskell Group	Jan. 1991
Flav-O-Rich	Canton, MS	Dairy	Renov.	–	–	–	Hixson	Spring 1992
Florida Crystals	Okeelanta, FL	Sugar	Add.	–	15	–	PSI Group	Planning
Folger Coffee Co.	New Orleans, LA	Coffee	Exp.	20	60	–	Fru-Con Engr. Bechtel	–
Folger Coffee Co.	Kansas City, MO	Coffee	Renov.	–	–	–	Fru-Con Engr.	1991
Frito-Lay Co.	Fontana, CA	Food products	New	182	–	–	–	–
Frito-Lay Co.	Modesto, CA	Distribution center	New	210	–	–	Haskell Group	Feb. 1991
Frito-Lay Co.	Modesto, CA	Distribution center	Exp.	50	–	–	Haskell Group	June 1991
Frito-Lay Co.	Vista, CA	Snack storage	New	20	1	20	Facility Group	March 1992
Frito-Lay	Vancouver, WA	Food products	Exp.	45	–	–	–	–
Frito-Lay	Aberdeen, MD	Chips and dips	New	–	–	300	–	–
Frito-Lay	Beloit, WI	Snack foods	Exp.	50	–	150	–	Early 1992
Frito-Lay	Aberdeen, MD	Distribution center	New	260	–	–	Haskell Group	April 1992
Fruit Growers Supply	Orange Grove, CA	Citrus	New	24	1	20	Foodpro Int'l.	Aug. 1992

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employ-ees	Architects/ Engineers	Status & Date
			G					
Galaxy Cheese	Orlando, FL	Cheese products	New	55	–	70	–	–
General Foods USA	Winchester, VA	Food products	New	135	–	200	–	–
General Mills	Albuquerque, NM	Cereal	New	–	128	–	United Engrs. & Constructors	June 1992
Golden Peanut Co.	Camilla, GA	Distribution center	Exp.	42	–	–	Haskell Group	Jan. 1991
Golden Poultry	Russellville, AL	Poultry processing	Exp.	–	27	–	–	–
Gordon Food Service	Grand Rapids, MI	Food distribution	New	250	36	100	Webber/Smith	Spring 1992
Grain Processing	Muscatine, IA	Starch	Exp.	–	–	–	PSI Group	Aug. 1991
Great Lakes Inc.	Newport, TN	Sucralose	New	–	40	60	PSI Group	April 1991
			H					
Haagen Dazs	Tulare, CA	Ice cream	Exp.	10	1	15	Facility Group	Jan. 1992
Hannaford Bros. Co.	Schodack, NY	Distribution center	Exp.	70	–	13	St. Onge, Ruff and Associates	Nov. 1991
Heaven Hill Distilleries	Bardstown, KY	Bourbon	Exp.	–	3	–	–	–
Herbe	Garland, TX	Pet food	New	–	–	50	–	–
Hershey Chocolate USA	Reading, PA	Candy	Exp.	–	13	–	–	–
Hershey Chocolate USA	Derry Township, PA	Chocolate	New	130	100	–	Sverdrup	–
Hershey Foods Corp.	Winchester, VA	Pasta products	New	180	60	100	–	1993
Hershey Pasta	Fresno, CA	Pasta	Exp.	100	10	120	–	Sept. 1992
Highland Foods Co.	Abilene, TX	Meat processing	New	360	–	83	–	–
Hilal Meat & Food Co.	Bladenboro, NC	Chicken processing	New	–	2.5	60	–	–
Hills Brothers Coffee	Casa Grande, AZ	Coffee	Exp.	34	–	–	–	–
Hill's Pet Products	Richmond, IN	Pet food	New	200	80	200	Epstein & Sons	June 1991
Hillshire Farm	Kentucky	Meat	Exp.	–	–	–	Hixson	Summer 1992
Hudson Foods	Albertville, AL	Poultry processing	Exp.	–	11.3	150	–	Late 1992
Hughes Markets	Irwindale, CA	Grocery storage	New	780	40	250	Facility Group	Jan. 1993
Hunt-Wesson	Helm, CA	Canned tomatoes	Exp.	60	10	100	–	–
Hy-Vee Food Stores	Chariton, IA	Perishables	New	138	–	–	Food Plant Engineering	1992
Hy-Vee Food Stores	Chariton, IA	Perishables	Exp.	55	–	–	Food Plant Engineering	1992
			I					
International Multi Foods	Rialto, CA	Frozen burritos	New	96	–	–	–	–
Indulac	Barceloneta, PR	Dairy	New	115	17	57	JAI Engineers	Dec. 1993
IPC	Kentucky	Ingredients	New	–	–	–	Hixson	Fall 1992
			J					
J-M Foods	Miami, OK	Vegetable proc.	New	20	–	–	–	–
Jan's Frozen Foods	Pierre, SD	Vegetarian pizza	Exp.	–	1.6	69	–	–
Joseph E. Seagrams & Sons	Baltimore Cnty., MD	Bottling plant	New	130	8	–	–	–
Joyce Foods	Clemmons, NC	Poultry processing	Exp.	36	2.3	–	–	–

FOOD PLANT SURVEY



SK Foods expanded its tomato processing facilities in Lemoore, CA. (Source: Foodpro International.)

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employees	Architects/ Engineers	Status & Date
			K					
Kahn's	Claryville, KY	Hot dogs	Exp.	–	–	–	–	–
Kangaroo Brands	Milwaukee, WI	Pita bread	New	75	3	–	–	May 1992
Karlshamns	Columbus, OH	Edible oils	New	3 acres	15	30	JLE PSI Group	Sept. 1991
Kaytee Products	Chilton, WI	Animal feed	New	–	1.5	–	–	–
Kings Hawaiian Bread	Torrance, CA	Frozen foods	New	72	3	–	–	–
Kohnan	Fairfield, CA	Sake	New	32	–	–	–	–
Kraft Food Ingredients	Albany, MN	Food products	Exp.	–	8	–	–	–
Kraft General Foods	Frederick Cnty., VA	Food products	New	135	–	200	–	–
Kraft General Foods	Atlanta, GA	Food products	New	22	1.5	–	–	–
Kraft General Foods	Springfield, MO	Cheese	Exp.	–	4	–	Sverdrup	June 1992
Kraft General Foods	Pennsylvania	Dairy	Renov.	–	–	–	Hixson	Summer 1992
Kraft Foodservice	Twinsburg, OH	Distribution	New	150	–	–	Haskell Co.	April 1991
Kraft Foodservice	Norcross, GA	Distribution	Exp.	280	–	–	Haskell Co.	Dec. 1991
Kraft Foodservice	Norcross, GA	Distribution	Exp.	700	–	–	Haskell Co.	April 1992
Kraft Foodservice	Livermore, CA	Distribution	New	195	–	–	Haskell Co.	April 1992
Kraft Foodservice	New Swickley, PA	Distribution	New	200	–	–	Haskell Co.	June 1992
Kroger Co.	Louisville, KY	Dry & Perishables	New	490	–	–	Food Plant Engineering	Spring 1993
			L					
Langlois Flour Co.	Mira Loma, CA	Mixes, doughs	New	48	2.3	55	–	–
Lehigh Valley Dairies	Lansdale, PA	Dairy	Exp.	14	–	–	St. Onge, Ruff and Associates	June 1992
Leprino Foods Co.	Lemoore, CA	Cheese	Exp.	40	8	25	Webber/Smith	Dec. 1991
Liqui-Dri Foods	Louisville, KY	Biscuit mix	Exp.	–	–	60	–	–

FOOD PLANT SURVEY

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employees	Architects/ Engineers	Status & Date
Lucky Stores	Irving, CA	Perishables	Exp.	90	8	45	Facility Group	May 1992
M								
M&M Mars	Cleveland, TN	Candy	Exp.	–	100	100	–	End of 1992
Marburger Foods	Peru, IN	Food processing	Exp.	–	1.5	–	–	–
MBS	Story City, IA	Soybean seeds	New	–	3	51	–	–
McCarty Holman	Jackson, MS	Perishables	New	100	8	35	Facility Group	Aug. 1992
McCormick & Co.	Hunt Valley, MD	Food products	New	100	–	–	–	–
Meijer	Tipp City, OH	Perishables	New	217	–	–	Food Plant Engineering	Winter 1992
Meyers Bakery	Hope, AR	Baked goods	Exp.	–	1.5	100	–	–
Minn-Dak Yeast	Wahpeton, ND	Yeast	Exp.	–	–	50	–	–
Minnesota Brewery	Saint Paul, MN	Malt beverages	Exp.	–	–	75	–	Nov. 1991
Minnesota Corn Processors	Columbus, NE	Corn processing	New	–	60	–	–	Fall 1992
Mrs. Crockett's Kitchens	Fort Worth, TX	Salads	Exp.	40	4	35	Webber/Smith	Spring 1992
Monfort	Louisville, KY	Beef processing	New	–	–	600	–	–
Montgomery Inn	Cincinnati, OH	Commissary	Renov.	–	–	–	Hixson	Spring 1992
Mother's Kitchen	Burlington, NJ	Food service	Exp.	24	–	–	–	–
Musco Olive Products	Tracy, CA	Olives	Exp.	40	5	90	Foodpro Int'l.	Oct. 1991
N								
Nabisco Brands	Orlando, FL	Food products	Exp.	40	1.4	–	–	–
Nabisco Foods	Indianapolis, IN	Margarine	New	300	39	180	–	Mid-1993
National Beef Packing Co.	Liberal, KS	Beef processing	Exp.	–	12	–	–	–
National Starch & Chemical	Indianapolis, IN	Starch	Exp.	–	–	–	PSI Group	–
National Sun Industries	Goodland, KS	Sunflower proc.	New	–	9	–	–	–
National Wine & Spirits Corp.	Indianapolis, IN	Bottled water	Exp.	35	3	–	–	–
Nature's Catch	Roundaway, MS	Striped bass	New	–	3	30	–	–
Neptune Fisheries	Newport News, VA	–	Exp.	26	1.6	–	–	–
Nestle Food Co.	Modesto, CA	Evaporated milk	New	125	26	60	–	–
Nestle S.A.	Atlanta, GA	Food products	New	700	–	100	–	–
Newly Weds Foods	Cleveland, TN	Breading crumbs	Exp.	135	–	120	–	–
Newport Shrimp/Talbot	Newport, OR	Fish products	New	–	2	–	–	–
Nichii Co. of America	Jefferson, IA	Soybean flake	New	29	10	–	Austin Co.	Complete
North Star Foods	Lake Mills, IA	Food processing	New	–	–	56	–	–
Normac Meats	Oklahoma City, OK	Meat	New	145	25	170	Webber/Smith	Oct. 1991
Northside Packing	Cumming, GA	Meat	Exp.	15	2	25	Webber/Smith	Fall 1992
Northside Packing	Mars, PA	Meat	Exp.	30	3	35	Webber/Smith	Fall 1992
NutraSweet Corp.	Augusta, GA	Artificial sweeteners	Exp.	–	10	100	–	–
Nutri-Flex Food Products	Madison, SD	Pea hull processing	New	–	2	–	–	–
O								
Ogden Aviation	Las Vegas, NV	Airline food	Exp.	37	4.3	50	–	–
OK Foods	Heavener, OK	Poultry processing	New	–	–	130	–	–
Old Fitzgerald Distillery	Louisville, KY	Bourbon, whiskey	Exp.	–	4	–	–	–

FOOD PLANT SURVEY

A new Tropicana distribution center springs up in Jersey City, NJ. (Source: Sverdrup.)

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employees	Architects/ Engineers	Status & Date
Ore-Ida Frozen Foods	Ontario, OR	Frozen foods	New	–	2.5	–	–	–
Orval Kent Food Co.	Vernon, CA	Chilled foods	Exp.	10	5	–	Austin Co.	–
Oscar Mayer	Kirksville, MO	Bacon	Exp.	–	–	–	Mead & Hunt	Jan. 1992
Ouachita Coca-Cola Bottling Co.	Monroe, LA	Soft drinks	Exp.	20	2.3	–	–	Spring 1992
P								
P&C Food Markets	Syracuse, NY	Grocery	New	270	14	60	Webber/Smith	Summer 1993
Paul Shipman	Seattle, WA	Brewery	New	–	18	–	–	Late 1993
Pekin Energy Co.	Pekin, IL	Ethanol	Exp.	–	20	–	PSI Group	Aug. 1991
Perdue Farms	Dillon, SC	Poultry processing	New	–	25	300	–	–
Pestritto Foods	Bakersfield, CA	Frozen dough	New	20	–	125	–	–
PetsMart	Ennis, TX	Pet food	New	117	–	100	–	–
PFP	Valley City, ND	Finished foods	New	30	–	–	–	–
Ph. Orth Co.	Spartanburg, SC	Baker's ingredients	New	44	–	–	–	–
Philadelphia Macaroni	Grand Forks, ND	Pasta	New	40	–	–	–	–
Philadelphia Port Authority	Philadelphia, PA	Fruit storage	Renov.	90	–	–	St. Onge, Ruff and Associates W.F. Spiegel	1992
Pizza Hut	Wichita, KS	Hand-made pizza	Exp.	54	2.5	120	–	April 1992
Port of Seattle	Seattle, WA	Warehouse	New	70	7	25	Webber/Smith Reid-Middleton	Spring 1992
Port of Everett	Everett, WA	Warehouse	New	30	3	10	Webber/Smith John Graham Associates	July 1992
Portioned Meats	Mandeville, LA	Meat	New	20	2	30	Webber/Smith	–
Price Chopper Smkts.	Schenectady, NY	New	Dairy	26	1.2	–	St. Onge, Ruff and Associates	
Publix Supermarkets	Deerfield Beach, FL	Perishables	Exp.	420	–	–	Food Plant Engineering	–
Purina Mills	Orrville, OH	Animal feeds	New	–	5.2	–	–	–
Q								
Quaker Oats	Louisville, KY	Food processing	Exp.	170	25	130	Haskell Group	March 1991
Quincy Farms	Quincy, FL	Mushrooms	Exp.	100	7.2	100	–	–
R								
R.M. Palmer Co.	Exeter, PA	Chocolate	New	165	–	–	–	March 1992

FOOD PLANT SURVEY

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employees	Architects/ Engineers	Status & Date
Raleys	Sacramento, CA	Perishables	New	285	–	–	Food Plant Engineering	Summer 1992
Rangen	Angleton, TX	Fish feed	New	–	5	–	–	–
Ralston Purina	Memphis, TN	Soy protein	New	–	50	–	PSI Group	April 1991
Red Wing Co.	Fredonia, NY	Food products	Exp.	–	8.5	–	–	–
Reedsburg Foods Corp.	Reedsburg, WI	Frozen vegetables	Exp.	–	2.5	–	–	Aug. 1991
Richmond Cold Storage	Richmond, VA	Distribution center	New	75	6	40	Haskell Group	Jan. 1991
Rocco Turkey	Rockingham County, VA	Turkey	New	110	10	45	Facility Group,	June 1992
Rosenberger Cold Storage	York, PA	Refrigeration	Exp.	80	2	20	Webber/Smith	Aug. 1991
Roth Kase USA Ltd.	Monroe, WI	Cheese	Exp.	–	3	–	–	–
Ruiz Food Products	Dinuba, CA	Mexican food	New	200	–	–	–	March 1991
Russell Stover Candies	Carmel Church, VA	Candy	New	90	5	30	Facility Group	March 1992
Ryan Milk	Murray, KY	Dairy products	Exp.	–	2.2	–	–	April 1992
		S						
SK Foods, Inc.	Lemoore, CA	Tomato paste	Exp.	24	4	140	Foodpro Int'l.	June 1991
Sage Enterprises	Hauppauge, NY	Distribution center	Renov.	30	–	–	St. Onge, Ruff and Associates	1993
San Benito Foods	Hollister, CA	Food canning	New	400	–	–	–	–
Sargento Cheese Co.	Plymouth, WI	Cheese processing	Exp.	60	–	–	–	July 1992
Sauer, C.F. Company	Mauldin, SC	Mayonnnaise	Exp.	–	4	–	–	–
Savannah Cocoa	Savannah, GA	Cocoa bean	New	–	–	50	–	Sept. 1991
Schenley Distillers	Louisville, KY	Bourbon	Exp.	–	20	–	–	–
Scrivner	Montgomery, AL	Food products	New	80	–	–	–	Oct. 1991
Scrivner	Buffalo, NY	Distribution center	Exp.	30	–	10	Webber/Smith	Fall 1991
Seneca Foods	Janesville, WI	Vegetable proc.	Exp.	175	–	–	–	–
Sheridan Extrusion Co.	Sheridan, WY	Pet food/fish	New	20	2.4	–	–	May 1992
Showa Sangyo Co., Ltd.	Portland, OR	Frozen vegetables	New	–	14.6	–	–	–
Smith Frozen Food	Weston, OR	Dry	New	30	–	–	Food Plant Engineering	Fall 1992
Smith Frozen Food	Weston, OR	Frozen food	Exp.	102	–	–	Food Plant Engineering	Fall 1991
Smith Dairy Products Co.	Orrville, OH	Dairy products	New	–	5.6	–	–	–
Smithfield Foods	Tarheel, NC	Pork	New	–	50	500	–	Sept. 1992
Snyders	Hanover, PA	Pretzels	Addition	40	25	–	–	Summer 1992
So-Pak Co.	Mullins, SC	Military food	Exp.	28	–	–	–	–
Springwater Cookie Co.	Springboro, OH	Cookies	New	102	–	–	–	Late Summer
Steuben	Buffalo, NY	Cultured products	Renov.	–	–	–	Hixson	1991
Stokely USA	Wells, MN	Vegetable proc.	Exp.	–	3.1	–	–	–
Stroehmann Bakery	West Hazleton, PA	Fresh breads	Exp.	47	–	100	–	1992
Sunlight Foods	Lakeland, FL	Food products	Exp.	27	–	–	–	–
Swift-Eckrich	Saint James, MN	Cold cuts	Exp.	–	2	70	–	–
		T						
T.G. Lee	Plant City, FL	Dairy products	Exp	–	–	150	–	–
Taggart & Taggart Soybean	Augusta, AR	Soybean processing	New	–	3	–	–	–

FOOD PLANT SURVEY

Company	Plant Location	Primary Product	Type Project	M Sq. Ft.	Est. Cost ($ millions)	Employees	Architects/ Engineers	Status & Date
Tatsuuma-Honke Brewing Co.	Golden, CO	Sake brewery	New	61	7	–	–	–
Teepak	Swansea, SC	Edible meat casings	Exp.	20	10	–	–	–
The Western Dairymen Coop.	Amalga, UT	Cheese	Exp.	–	5	–	–	–
Thomas J. Lipton Co.	Independence, MO	Instant tea	Exp.	–	1.3	60	–	–
Thomas J. Lipton Co.	Independence, MO	Salad dressings	Exp.	–	13	60	–	–
Tombstone Pizza Corp.	Sussex, WI	Frozen pizza	Exp.	72	–	–	–	–
Tone Brothers	Des Moines, IA	Spices, vegetables	Exp.	30	4	–	–	–
Trauth Dairy	Newport, KY	Dairy	Exp.	30	–	–	Hixson	1991
Tropicana	Fort Pierce, FL	Frozen citrus	Exp.	–	10	100	–	–
Tropicana Products	Fort Pierce, FL	Frozen citrus	New	127	–	–	–	–
Tropicana Products	Jersey City, NJ	Distribution center	New	210	60 +	–	Sverdrup	–
Tyson Foods	Nashville, AR	Poultry processing	Exp.	–	5	100	–	–
Tyson Foods	Garland, TX	Meat processing	Exp.	28	3	–	–	–
U								
United Maize	Cambria, WI	Grits, flour	New	23	1.1	–	–	–
UB Foods U.S.	Oxford, PA	Snacks	Exp.	15	–	–	Epstein & Sons	Nov. 1991
U.S. Army Corp. of Engrs.	Annville, PA	Foodservice dist.	New	50	–	–	St. Onge, Ruff and Associates	1993
V								
Vacu-Dry	Sebastopol, CA	Dried fruit	Exp.	30	–	–	Food Plant Engineering	Fall 1992
Ver Melle	Florence, KY	Candy	Exp.	–	7.5	–	–	–
Ver Melle	Covington, KY	Candy	New	52	6	–	–	–
Verdelli Farms	Hummelstown, PA	Vegetables	New	62	4.7	250	St. Onge, Ruff and Associates	May 1992
Vita-Pakt	Lindsay, CA	Marmalade	New	60	–	80	–	–
W								
Warner-Jenkinson	St. Louis, MO	Food dye	New	28	8	12	Fru-Con Engr.	April 1991
Wayne Farms	Laurel, MS	Poultry proc.	Exp.	70	6	40	Facility Group	Feb. 1992
Wells Blue Bunny Dairy	Le Mars, IA	Ice cream	Exp.	175	24	245	–	–
Western Sugar Co.	Scottsbluff, NE	Sugar processing	New	–	36	–	PSI Group	July 1992
WestPac	Lathrop, CA	Dry grocery	New	658	–	–	Food Plant Engineering	Summer 1992
White Castle Distributing	Covington, KY	Hamburgers	New	30	5	100	–	–
Whitlock Packaging Corp.	Fort Gibson, OK	Fruit juice	Exp.	78	–	100	–	–
Wilson Products Company	Salt Lake City, UT	Mexican food	Exp.	38	2.3	–	–	–
Winn Dixie Stores	Fitzgerald, GA	Food and beverages	New	–	–	300	–	–
Wisconsin Dairies Coop.	Waumandee, WI	Cheese	Exp.	15	1	–	Mead & Hunt	July 1991
WSMP	Claremont, NC	Rolls, biscuits	Exp.	45	5.5	120	–	–
Z								
Zapata Haynie	Abbeville, LA	Fish and oil	Exp.	–	6.7	–	–	–